

CLAIMS

1/ Method of correcting the image distortions created on the screen of a cathode ray tube comprising the following steps:

- determining in digital form, the values of the line scan current synchronously and of the frame scan current asynchronously
- using these values to address the inputs of a correction memory
- programming the correction memory so that for each address at input there corresponds at output at least one correction value
- converting the correction value with the aid of a digital/analogue converter
- filtering the correction values with the aid of a low-pass filter
- applying an electrical quantity dependent on the correction value to at least one magnetic coil of the deflection system disposed on the cathode ray tube.

2/ Device for correcting the line and/or frame fields of a deflector for cathode ray tube comprising:

- a current sensor (1) for evaluating the value of the line current I_l
- a series of comparators (40 to 4N) intended to compare the value of the line current I_l with reference values
- a current sensor (2) for evaluating the value of the frame current I_t
- an analogue/digital converter (31) for converting the analogue value of the frame current
- a programmed correction memory (50) which is addressed by the output signals from the comparators and from the analogue/digital converter so as to deliver to at least one digital/analogue converter (70, 71...7N), data (60, 61, ...6N) which are dependent on the addressing signals
- a low-pass filter (80, 81, ...8N) for filtering the output of the digital/analogue converter

- at least one correction coil (100, 101,... 10N) for correcting the deflection fields of the deflector, generating a correction field as a function of the output value from the low-pass filter.

3/ Correction device according to Claim 2, characterized in that the sampling frequency of the analogue/digital converter (31) is at least equal to the line scan frequency of the deflector.

4/ Device according to Claim 2, characterized in that the cut-off frequency of the filter (80, 81, ... 8N) is around 150 KHz.

5/ Device according to Claim 2, characterized in that the digital analogue converters operate at a frequency of at least 350 KHz.